

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 215

See attached form for additional information.

Interagency Report Control #

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. Certificate Number: 51-F-0006
Customer Number: 437

Form Approved
OMB NO. 0578-0036

ANNUAL REPORT OF RESEARCH FACILITY
(Type or Print)

US Army Med Research Inst of Chemical Defense
ATTN: MCMR-CDZ
3100 Ricketts Point Road
Aberdeen Prov Grnd. MD 21010
Telephone: (410) 436-3804

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes.
Attach additional sheets if necessary.)

FACILITY LOCATIONS (Sites)

(b)(2)High, (b)(7)f

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or USE APHIS Form 7023A)

| A. Animals Covered By the Animal Welfare Regulations | B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes | C. Number of animals upon which teaching research experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs. | D. Number of animals upon which experiments research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used. | E. Number of animals upon which teaching, experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilization drugs would have adversely affected the procedures, research or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reason such drugs were not used must be attached to the report. | F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E) |
|--|--|---|--|---|--|
| 4. Dogs | 0 | 0 | 0 | 0 | 0 |
| 5. Cats | 0 | 0 | 0 | 0 | 0 |
| 6. Guinea Pigs | 0 | 812 | 225 | 6,358 | 7,395 |
| 7. Hamsters | 0 | 0 | 0 | 0 | 0 |
| 8. Rabbits | 0 | 1 | 84 | 0 | 85 |
| 9. Non-human Primates | 62 | 8 | 35 | 83 | 126 |
| 10. Sheep | 0 | 0 | 0 | 0 | 0 |
| 11. Pigs | 0 | 0 | 16 | 0 | 16 |
| 12. Other Farm Animals: | N/A | | | | |
| 13. Other Animals: | | | | | |

ASSURANCE STATEMENTS

- 1. Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, testing, surgery, or experimentation were followed by this research facility.
- 2. Each principal investigator has considered alternatives to painful procedures.
- 3. This facility is adhering to the standards and regulations under the Act, and is has required the exceptions to the standards and regulations be specified and explained by the principal investigator and approving Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)

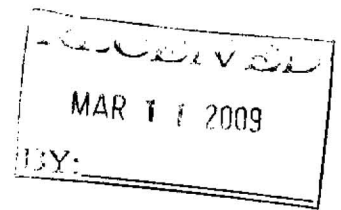
SIGNATURE OF HEADQUARTERS RESEARCH FACILITY OFFICIAL

NAME & TITLE OF HEADQUARTERS RESEARCH FACILITY OFFICIAL (Type or Print)

DATE SIGNED

(b)(6), (b)(7)(C)

NP



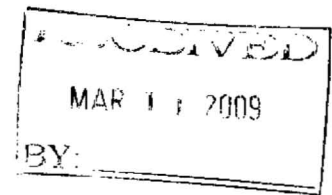
Column E Explanation Form
USAMRICD – FY 08
Registration Number: 51-F-0006

Protocol 1

1. A total of 849 column "E" guinea pigs were utilized in this study.
2. Painful procedure: Animals will receive a convulsive dose of an agent which is thought (but not documented) to cause some pain and/or distress due to the intense physical activity caused by the seizure.
3. Justification: Should it occur, pain/distress might be relieved to some extent by administration of one of the test drugs that successfully terminates the seizure. Anesthetics and analgesics are known to have profound effects on brain function that can interact with the drugs of interest, the synthesis and release of brain neurotransmitters and/or the toxicity of the nerve agent and thus complicate interpretation of the results.
4. No federal regulations mandate this procedure.

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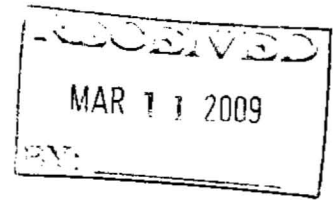


Protocol 2

1. A total of 387 column "E" guinea pigs were utilized in this study.
2. Painful procedure: Animals will receive a convulsive dose of an agent which is thought (but not documented) to cause some pain and/or distress due to the intense physical activity caused by the seizure.
3. Justification: The administration of anesthetics or analgesics to relieve pain are known to have profound effects on brain, tissue, and organ function that can interact with the synthesis and release of brain neurotransmitters, and/or the toxicity of nerve agent and thus complicate interpretation of the results.
4. No federal regulations mandate this procedure.

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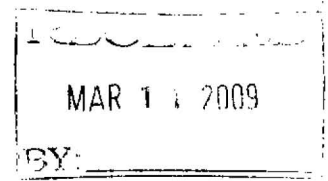
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Protocol 3

1. A total of 58 column "E" guinea pigs were utilized in this study.
2. Painful procedure: Animals will receive a convulsive dose of an agent which is thought (but not documented) to cause some pain and/or distress due to the intense physical activity caused by the seizure.
3. Justification: The administration of anesthetics or analgesics to relieve pain would lead to an erroneous evaluation of the toxicity of agents and efficacy of pretreatment, treatment, and decontamination procedures.
4. No federal regulations mandate this procedure.

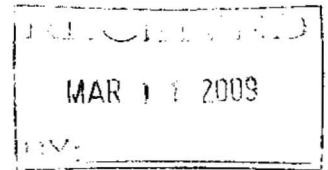
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Protocol 5

1. A total of 1,152 column "E" guinea pigs were utilized in this study.
2. Painful procedure: Animals will receive a convulsive dose of an agent which is thought (but not documented) to cause some pain and/or distress due to the intense physical activity caused by the seizure.
3. Justification: Anesthetics or analgesics cannot be used in any of the procedures involving agent administration and/or pretreatment and treatment with any of the medical countermeasures. One of the principal effects of agent intoxication is respiratory paralysis. This is also a major side effect of anesthetics and analgesics. Conducting these experiments under anesthesia or analgesia could lead to faulty interpretation of the toxicity data and/or the effectiveness of the countermeasures because of the synergistic respiratory depressant effects of these drugs with the agent.
4. No federal regulations mandate this procedure.

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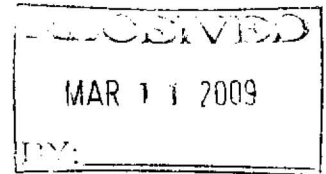


Protocol 6

1. A total of 422 column E guinea pigs were utilized in this study.
2. Painful procedure: Animals will receive a convulsive dose of an agent which is thought (but not documented) to cause some pain and/or distress due to the intense physical activity caused by the seizure.
3. Justification: Anesthetics or analgesics cannot be used in any of the procedures involving agent administration and/or pretreatment and treatment with any of the medical countermeasures. One of the principal effects of agent intoxication is respiratory paralysis. This is also a major side effect of anesthetics and analgesics. Conducting these experiments under anesthesia or analgesia could lead to faulty interpretation of the toxicity data and/or the effectiveness of the countermeasures because of the synergistic respiratory depressant effects of these drugs with the agent.
4. No federal regulations mandate this procedure.

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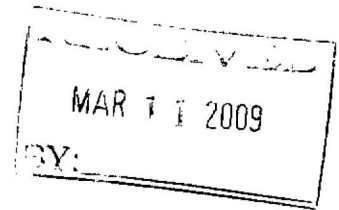
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Protocol 7

1. A total of 1,230 column "E" guinea pigs were utilized in this study.
2. Painful procedure: Animals will receive a convulsive dose of an agent which is thought (but not documented) to cause some pain and/or distress due to the intense physical activity caused by the seizure.
3. Justification: The administration of anesthetics or analgesics to relieve pain would lead to an erroneous evaluation of the toxicity of agents and efficacy of pretreatment, treatment, and decontamination procedures.
4. No federal regulations mandate this procedure.

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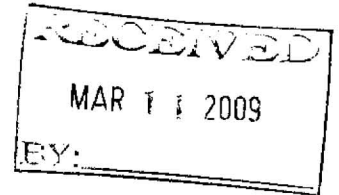


Protocol 8

1. A total of 92 column "E" guinea pigs were utilized in this study.
2. Painful procedure: Animals will receive a convulsive dose of an agent which is thought (but not documented) to cause some pain and/or distress due to the intense physical activity caused by the seizure.
3. Justification: The administration of anesthetics or analgesics to relieve pain are known to have profound effects on toxicity of nerve agents and, thus, can complicate interpretation of results.
4. No federal regulations mandate this procedure.

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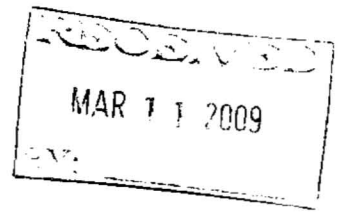
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Protocol 9

1. A total of 187 column "E" guinea pigs were utilized in this study.
2. Painful procedure: Animals will receive a convulsive dose of an agent which is thought (but not documented) to cause some pain and/or distress due to the intense physical activity caused by the seizure.
3. Justification: The administration of anesthetics or analgesics to relieve pain are known to have profound effects on toxicity of nerve agents and, thus, can complicate interpretation of results.
4. No federal regulations mandate this procedure.

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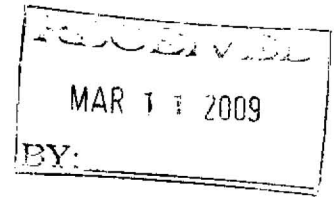


Protocol 10

1. A total of 433 column "E" guinea pigs were utilized in this study.
2. Painful procedure: Animals will receive a convulsive dose of an agent which is thought (but not documented) to cause some pain and/or distress due to the intense physical activity caused by the seizure.
3. Justification: It is anticipated that severe seizures and convulsions will be produced in rodents after exposure to agents. Since these observations are an important part of this study, drugs to alleviate pain or distress cannot be used.
4. No federal regulations mandate this procedure.

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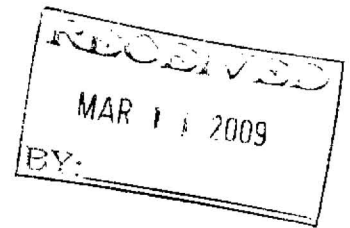


Protocol 11

1. A total of 292 column "E" guinea pigs were utilized in this study.
2. Painful procedure: Investigate the inhalation toxicity of agent exposure.
3. Justification: Using analgesics, anesthetics, or other pharmaceutical agents during recovery is expected to interfere and complicate the results.
4. No federal regulations mandate this procedure.

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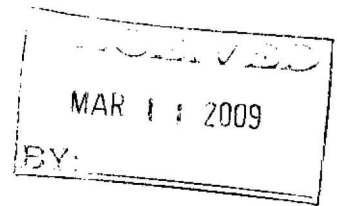


Protocol 12

1. A total of 220 column "E" guinea pigs were utilized in this study.
2. Painful procedure: Requires exposure to lethal dose of nerve agent.
3. Justification: One of the principle consequences of nerve agent intoxication is respiratory paralysis, which is also a major side effect of anesthetics and analgesics.
4. No federal regulations mandate this procedure.

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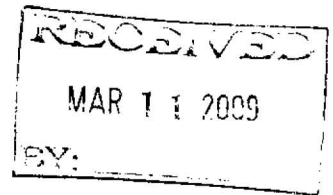
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Protocol 13

1. A total of 171 column "E" guinea pigs were utilized in this study.
2. Painful procedure: Animals will receive a convulsive dose of an agent which is thought (but not documented) to cause some pain and/or distress due to the intense physical activity caused by the seizure.
3. Justification: The administration of anesthetics or analgesics to relieve pain would lead to an erroneous evaluation of the toxicity of agents and efficacy of pretreatment, treatment, and decontamination procedures.
4. No federal regulations mandate this procedure.

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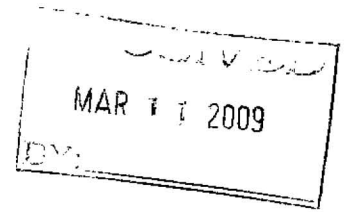
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Protocol 14

1. A total of 755 column "E" guinea pigs were utilized in this study.
2. Painful procedure: Animals will receive a convulsive dose of an agent which is thought (but not documented) to cause some pain and/or distress due to the intense physical activity caused by the seizure.
3. Justification: The administration of anesthetics or analgesics to relieve pain would lead to an erroneous evaluation of the toxicity of agents and efficacy of pretreatment, treatment, and decontamination procedures.
4. No federal regulations mandate this procedure.

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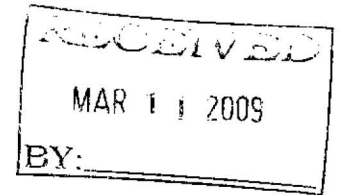


Protocol 15

1. A total of 78 column "E" guinea pigs were utilized in this study.
2. Painful procedure: Animals will receive a convulsive dose of an agent which is thought (but not documented) to cause some pain and/or distress due to the intense physical activity caused by the seizure.
3. Justification: The administration of anesthetics or analgesics to relieve pain are known to have profound effects on brain, tissue, and organ function that can interact with the synthesis and release of brain neurotransmitters, and/or the toxicity of nerve agent and thus complicate interpretation of the results.
4. No federal regulations mandate this procedure.

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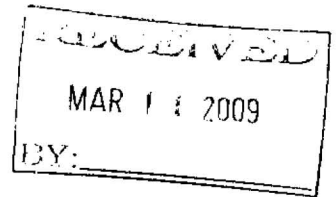


Protocol 16

1. A total of 33 column "E" nonhuman primates were utilized in this study.
2. Painful procedure: Animals will receive a convulsive dose of an agent which is thought (but not documented) to cause some pain and/or distress due to the intense physical activity caused by the seizure.
3. Justification: The administration of anesthetics or analgesics to relieve pain are known to have profound effects on brain, tissue, and organ function that can interact with the synthesis and release of brain neurotransmitters, and/or the toxicity of nerve agent and thus complicate interpretation of the results.
4. No federal regulations mandate this procedure.

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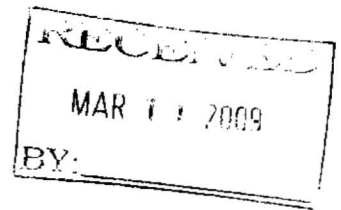


Protocol 17

1. A total of 14 column "E" nonhuman primates were utilized in this study.
2. Painful procedure: Animals will receive a convulsive dose of an agent which is thought (but not documented) to cause some pain and/or distress due to the intense physical activity caused by the seizure.
3. Justification: The administration of anesthetics or analgesics to relieve pain are known to have profound effects on brain, tissue, and organ function that can interact with the synthesis and release of brain neurotransmitters, and/or the toxicity of nerve agent and thus complicate interpretation of the results.
4. No federal regulations mandate this procedure.

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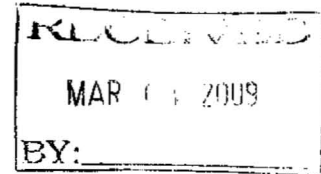


Protocol 18

1. A total of 27 column "E" nonhuman primates were utilized in this study.
2. Painful procedure: Animals will receive a convulsive dose of an agent which is thought (but not documented) to cause some pain and/or distress due to the intense physical activity caused by the seizure.
3. Justification: The administration of anesthetics or analgesics to relieve pain are known to have profound effects on toxicity of nerve agents and, thus, can complicate interpretation of results.
4. No federal regulations mandate this procedure.

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Protocol 19

1. A total of 9 column "E" nonhuman primates were utilized in this study.
2. Painful procedure: Animals receive a sub-lethal dose of nerve agent.
3. Justification: Analgesics and anesthetics are known to have profound effects on brain function that can interact with the drug of interest, the synthesis and release of brain transmitters, and/or toxicity of the nerve agent.
4. No federal regulations mandate this procedure.

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